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Product datasheet for RC219409

SNURPORTIN1 (SNUPN) (NM_001042581) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SNURPORTIN1 (SNUPN) (NM_001042581) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SNURPORTIN1
Synonyms:	KPNBL; RNUT1; Snurportin1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC219409 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAAGAGTTGAGTCAGGCCCTGGCTAGTAGCTTTTCTGTGTCTCAAGATCTGAACAGCACAGCTGCCC
CACACCCCCGCCTATCCCAGTACAAGTCCAAGTACAGTTCCTTGGAGCAGAGTGAGCGCCGCCGGAGGTT
ACTGGAACTGCAGAAATCCAAGCGGCTGGATTATGTGAACCATGCCAGAAGACTGGCTGAAGATGACTGG
ACAGGGATGGAGAGTGAGGAAGAAAATAAGAAAGATGATGAAGAAATGGACATTGACACTGTCAAGAAGT
TACCAAAACACTATGCTAATCAATTGATGCTTTCTGAGTGGTTAATTGACGTTCCTTCAGATTTGGGGCA
GGAATGGATTGTGGTCGTGTGCCCTGTTGGAAAAAGAGCCCTTATCGTGGCCTCCAGGGGTTCTACCAGT
GCCTACACCAAGAGTGGCTACTGTGTCAACAGGTTTTCTTCACTTCTGCCAGGAGGCAACAGGCGAAACT
CAACAGCAAAAGACTACACCATTCTAGATTGCATTTACAATGAGGTAAACCAGACCTACTACGTTCTGGA
TGTGATGTGCTGGCGGGGACACCCTTTTTATGATTGCCAGACTGATTTCCGATTCTACTGGATGCATTCA
AAGTTACCAGAAGAAGAAGGACTGGGAGAGAAAACCAAGCTTAATCCTTTTAAATTTGTGGGGCTAAAGA
ACTTCCCTTGCACTCCCGAAAGCCTGTGTGATGTGCTATCTATGGATTTCCCTTTTGAGGTAGATGGACT
TCTCTTCTACCACAAACAGACCCACTACAGCCCCGGAAGCACTCCCTTGGTGGGCTGGCTGCGCCCCTAC
ATGGTGTCAGATGTCCTTGGTGTAGCTGTGCCGGCTGGCCCGCTGACCACCAAGCCAGACTATGCTGGGC
ACCAGCTCCAGCAGATTATGGAGCACAAGAAGAGCCAGAAGGAAGGCATGAAGGAGAAACTCACACACAA
GGCCTCTGAGAATGGGCACTATGAATTGGAGCACCTGTCTACTCCCAAGTTGAAGGGTTCTTCCCATAGC
CCAGACCACCCTGGATGCCTCATGGAGAAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC219409 protein sequence
Red=Cloning site Green=Tags(s)

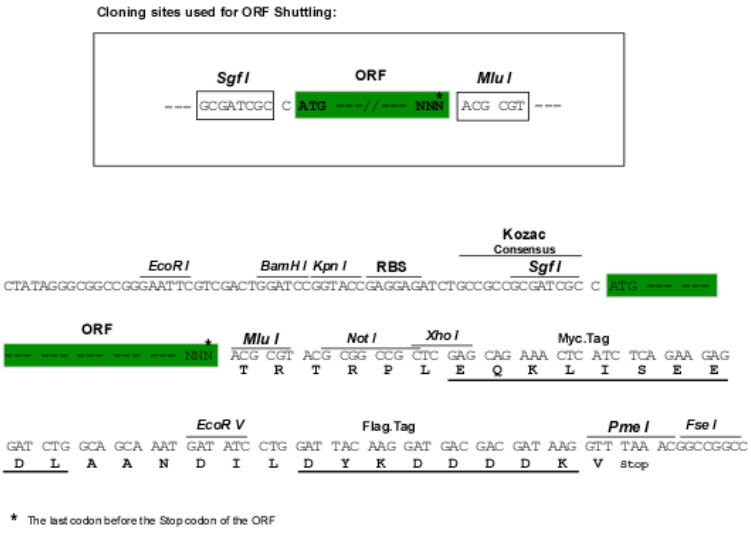
MEELSQALASSFSVSQDLNSTAAPHPRLSQYKSKYSSLEQSERRRRLLELQKSKRLDYVNHARRLAEDDW
TGMESEEENKKDDEEMDIDTVKKLPKHYANQLMLSEWLIDVPSDLGQEWIVVVCPVGKRALIVASRGSTS
AYTKSGYCVNRFSSLLPGGNRRNSTAKDYTILDCIYNEVNQTYYVLDVMCWRGHPFYDCQTDFRFYWMHS
KLPEEEGLGEKTKLNPFKFVGLKNFPCTPESLCDVLSMDFPFEVDGLLFYHKQTHYSPGSTPLVGWLRPY
MVSDVLGVAVPAGPLTTKPDYAGHQLQQIMEHKKSQKEGMKEKLTHKASENGHYELEHLSTPKLKGSSHS
PDHPGCLMEN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6390_f06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001042581

ORF Size: 1080 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: NM_001042581.1, NP_001036046.1

RefSeq Size: 1698 bp

RefSeq ORF: 1083 bp

Locus ID: 10073

UniProt ID: O95149

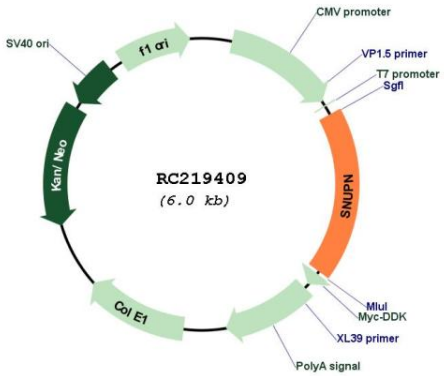
Cytogenetics: 15q24.2

Protein Families: Druggable Genome

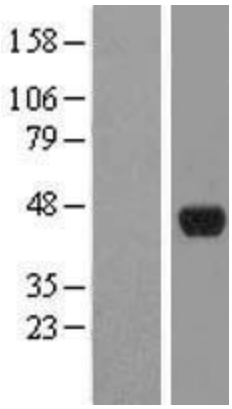
MW: 41.1 kDa

Gene Summary: The nuclear import of the spliceosomal snRNPs U1, U2, U4 and U5, is dependent on the presence of a complex nuclear localization signal. The latter is composed of the 5'-2,2,7-terminal trimethylguanosine (m3G) cap structure of the U snRNA and the Sm core domain. The protein encoded by this gene interacts specifically with m3G-cap and functions as an snRNP-specific nuclear import receptor. Alternatively spliced transcript variants encoding the same protein have been identified for this gene. [provided by RefSeq, Jul 2008]

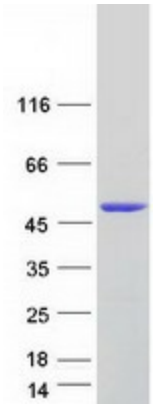
Product images:



Circular map for RC219409



Western blot validation of overexpression lysate (Cat# [LY420990]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219409 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SNUPN protein (Cat# [TP319409]). The protein was produced from HEK293T cells transfected with SNUPN cDNA clone (Cat# RC219409) using MegaTran 2.0 (Cat# [TT210002]).